## SEQUENCE LISTING

<110> Washington State University Research Foundation

Mealey, Katrina Bentjen, Steven	
<120> MDR1 VARIANTS AND METHODS FOR THEIR USE	
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Pro Leu Met Met Leu Val Phe Gly Asn Met Thr Asp Ser Phe Ala Asn 65 70 75 80

Ala Gly Ile Ser Arg Asn Lys Thr Phe Pro Val Ile Ile Asn Glu Ser 85 90 95

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Thr Thr Tyr Ala Tyr Tyr Tyr Ser Gly Ile Gly Ala Gly Val Leu Val
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Ile Gly Trp Phe Asp Val His Asp Val Gly Glu Leu Asn Thr Arg Leu 165 170 175

Thr Asp Asp Val Ser Lys Ile Asn Glu Gly Ile Gly Asp Lys Val Gly 180 185 190

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Phe Thr Pro Gly Trp Lys Leu Thr Leu Val Ile Leu Ala Ile Ser Pro 210 215 220

Val Leu Gly Leu Ser Ala Ala Ile Trp Ala Lys Ile Leu Ser Ser Phe 225 230 235 240

Thr Asp Lys Glu Leu Leu Ala Tyr Ala Lys Ala Gly Ala Val Ala Glu 245 250 255

Glu Val Leu Ala Ala Ile Arg Thr Val Ile Ala Phe Gly Gly Gln Lys 260 265 270

Lys Glu Leu Glu Arg Tyr Asn Lys Asn Leu Glu Glu Ala Lys Arg Ile 275 280 285

Gly Ile Lys Lys Ala Ile Thr Ala Asn Ile Ser Ile Gly Ala Ala Phe 290 295 300

Leu Leu Ile Tyr Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Thr Ser 305 310 315

Leu Val Leu Ser Ser Glu Tyr Thr Ile Gly Gln Val Leu Thr Val Phe 325 330 335

Phe Ser Val Leu Ile Gly Ala Phe Ser Ile Gly Gln Ala Ser Pro Ser 340 345 350

Ile Glu Ala Phe Ala Asn Ala Arg Gly Ala Ala Tyr Glu Ile Phe Lys 355 360 365

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Lys Pro Asp Asn Ile Lys Gly Asn Leu Glu Phe Lys Asn Val His Phe 385 390 395 400

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Asp Gly Met Val Cys Ile Asp Gly Gln Asp Ile Arg Thr Ile Asn Val 450 455 460

440

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Arg His Leu Arg Glu Ile Thr Gly Val Val Ser Gln Glu Pro Val Leu 465 470 475 480

Phe Ala Thr Thr Ile Ala Glu Asn Ile Arg Tyr Gly Arg Glu Asn Val 485 490 495

Thr Met Asp Glu Ile Glu Lys Ala Val Lys Glu Ala Asn Ala Tyr Asp 500 505 510

Phe Ile Met Lys Leu Pro Asn Lys Phe Asp Thr Leu Val Gly Glu Arg 515 520 525

Gly Ala Arg Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala Ile Ala Arg 530 535 540

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Glu Lys Gly Asn His Asp Glu Leu Met Lys Glu Lys Gly Ile Tyr Phe 610 620

Lys Leu Val Thr Met Gln Thr Arg Gly Asn Glu Ile Glu Leu Glu Asn 625 630 640

Ala Thr Gly Glu Ser Lys Ser Glu Ser Asp Ala Leu Glu Met Ser Pro 650 655

Lys Asp Ser Gly Ser Ser Leu Ile Lys Arg Arg Ser Thr Arg Arg Ser

660 665 670

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Leu Val Phe Ser Ala Ile Val Phe Gly Ala Met Ala Val Gly Gln Val 980 985 990

Ser Ser Phe Ala Pro Asp Tyr Ala Lys Ala Lys Val Ser Ala Ala His 995 1000 1005

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Ala Glu Asn Ile Ala Tyr Gly Asp Asn Ser Arg Val Val Ser His 1130 1135 1140

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